Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (canceled)
- 2. (canceled)
- 3. (currently amended) A digital projector as in claim ± 5 wherein a first and a second sensors are located to capture at least two of said fiducials and said fiducials are spatially separated.
 - 4. (canceled)
- 5. (currently amended) A digital projector as in claim 1 A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

<u>a diverter which diverts a portion of said combined</u> <u>modulated wavelengths bands to at least one sensor;</u>

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein said fiducial data comprises a multiplicity of spatially separated fiducials each comprising a multiplicity of pixels in a predetermined pattern.

- 6. (currently amended) A digital projector as in claim ± 5 wherein said fiducial data for each of said first, second, and third wavelength bands is located in a same spatial position relative to said image data.
- 7. (currently amended) A digital projector as in claim ± 5 wherein said diverter diverts all of said fiducial data to said sensor.
- 8. (currently amended) A digital projector as in claim 1 A digital projector having closed loop three color alignment comprising:

 a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein an element between said diverter and said sensor reduces an amount of light impinging on said sensor.

9. (currently amended) A digital projector as in claim 1 A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator; a combiner which combines said modulated first, second,

and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein a first sensor determines position and a second sensor detects focus.

- 10. (currently amended) A digital projector as in claim 4 <u>5</u> wherein said spatial light modulators impart fiducial data to said first, second, and third wavelength bands in a predetermined sequence.
- 11. (currently amended) A digital projector as in claim ± 5 wherein said sensor collects said fiducial data from each of said first, second, and third wavelength bands in a predetermined sequence.

- 12. (currently amended) A digital projector as in claim 4 <u>5</u> wherein said microprocessor determines said wavelength band by the predetermined sequence.
- 13. (currently amended) A digital projector as in claim 1 A digital projector having closed loop three color alignment comprising:

 a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein wavelength filters are presented in a predetermined sequence in front of said sensor.

- 14. (currently amended) A digital projector as in claim ± 5 wherein said sensor discriminates between multiple wavelength bands.
- 15. (currently amended) A digital projector as in claim ± 5 wherein said spatial light modulators are LCDs.

- 16. (currently amended) A digital projector as in claim ± 5 wherein said spatial light modulators are digital micro-mirrors.
- 17. (currently amended) A digital projector as in claim 4 <u>5</u> wherein uniformizing optics are located between said light source and said optical engine.
- 18. (currently amended) A digital projector as in claim ± 5 wherein said light source is a xenon lamp.
- 19. (currently amended) A digital projector as in claim ± 5 wherein said light source is a laser.
- 20. (currently amended) A digital projector as in claim ± 5 wherein in a mask separates said fiducials from a projected image.
 - 21. (canceled)
- 22. (currently amended) A digital projector as in claim 21 A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a sensor which senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to an actuator on at least one of said spatial light modulators to resolve said error; and wherein a mask separates said fiducials from a projected image.

- 23. (original) A digital projector as in claim 22 wherein said mask is mounted with a heat dissipating unit.
- 24. (original) A digital projector as in claim 22 wherein said fiducial data is imaged onto said mask and said sensor is an imaging system which collects said fiducial data from said mask.
- 25. (currently amended) A digital projector as in claim 21 A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a sensor which senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to an actuator on at least one of said spatial light modulators to resolve said error; and wherein said sensor is on a mask.

- 26. (currently amended) A digital projector as in claim 21 22 wherein said sensor is comprised of a first and second sensor wherein said first and second sensors are located on corners of said mask.
 - 27. (canceled)
 - 28. (canceled)
- 29. (currently amended) A digital projector as in claim 27 A digital projector having closed loop three color alignment comprising:

 a light source which produces first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second,

and third wavelengths bands;

<u>a diverter which diverts a portion of said combined</u> <u>modulated wavelengths bands to at least one sensor;</u>

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein a first and a second sensors are located to capture at least two of said fiducials and said fiducials are spatially separated.

30. (currently amended) A digital projector as in claim 27 29 wherein said fiducial data comprises a multiplicity of pixels in a predetermined pattern.

31. (new) A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein said spatial light modulators impart fiducial data to said first, second, and third wavelength bands in a predetermined sequence.

32. (new) A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein said sensor collects said fiducial data from each of said first, second, and third wavelength bands in a predetermined sequence.

33. (new) A digital projector having closed loop three color alignment comprising:

a light source;

an optical engine which splits a beam of light from said light source into first, second, and third wavelengths bands;

a first, second, and third spatial light modulator which imparts image data and first, second, and third fiducial data respectively to said first, second, and third wavelengths bands;

wherein said first, second, and third wavelengths bands are directed respectively to said first, second, and third, spatial light modulator;

a combiner which combines said modulated first, second, and third wavelengths bands;

a diverter which diverts a portion of said combined modulated wavelengths bands to at least one sensor;

wherein said sensor senses a relative position of the each of said fiducials and sends said position information to a microprocessor;

wherein said microprocessor determines an error based on said relative position of said fiducials;

wherein said microprocessor sends a signal to at least one component of said system to resolve said error; and

wherein said microprocessor determines said wavelength band by the predetermined sequence.